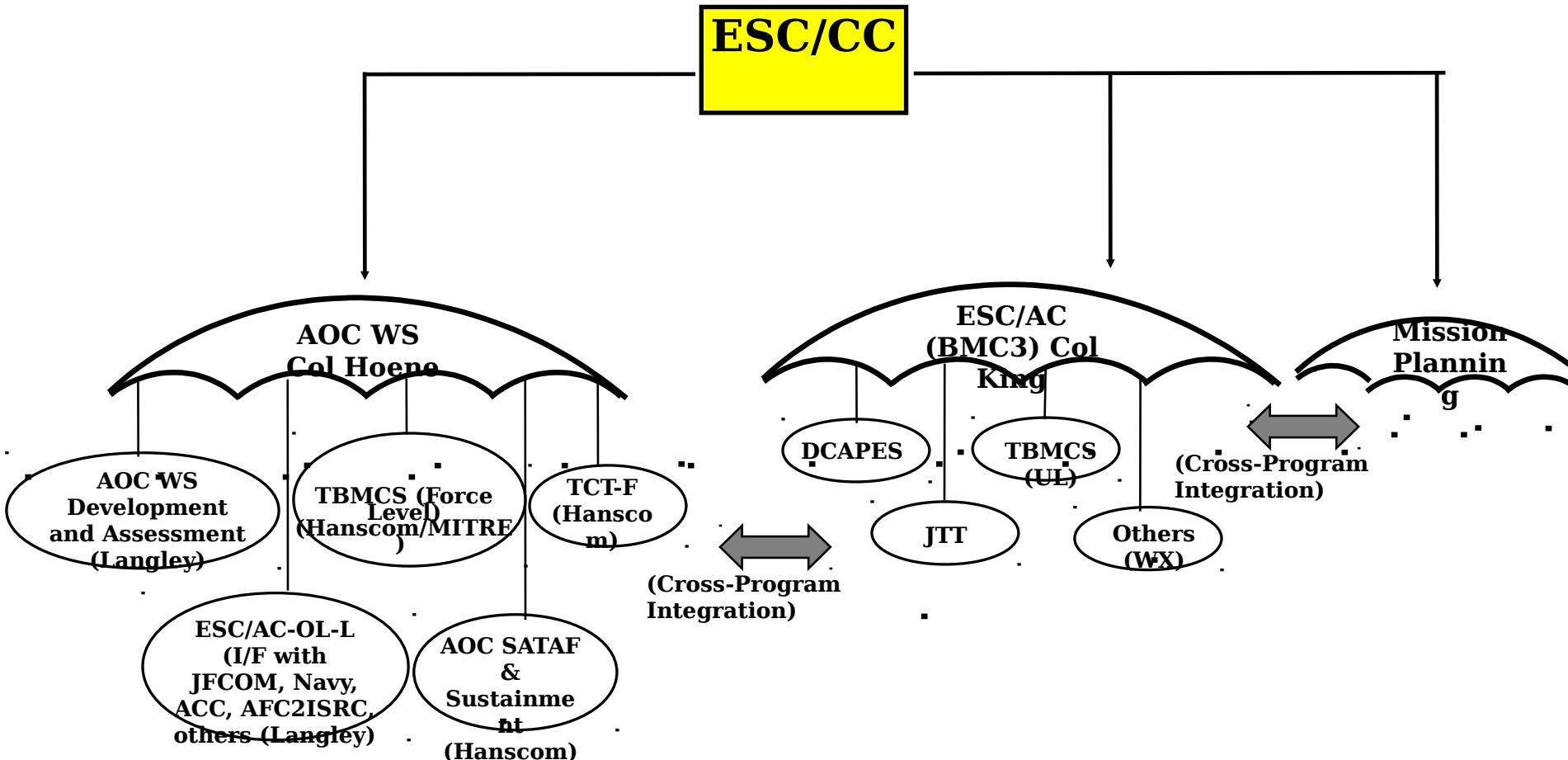


AOC Weapon System & Lead System Integrator Overview

Col Pete Hoene
AOC WS SPD
8 Sep 03 1

Organizational Relationship



Background

AOC - Evolution of a Weapon System

<2000



- Pre- Weapon System- "A pick-up game"

2000



- Transition period toward a Weapon System
- CAOC-X & SPO created
- OSD Contingency \$\$

2001-03



- Fielded PSAB & AUAB- "Nerve Center for OEF/OIF"
- Fielded Homeland Defense AOC
- Began fielding other WS locations: FTU, HD,

2004 →

- Standardization (Falconers, FTU, and HD)
- Air Force \$\$
- LSI



In FY 04, AF begins to fund AOC as a Weapon System...

- OSD and Congressional Add \$\$

Program Strategy: IOC/FOC Acceleration

6 May 03 HAF Direction

FY03

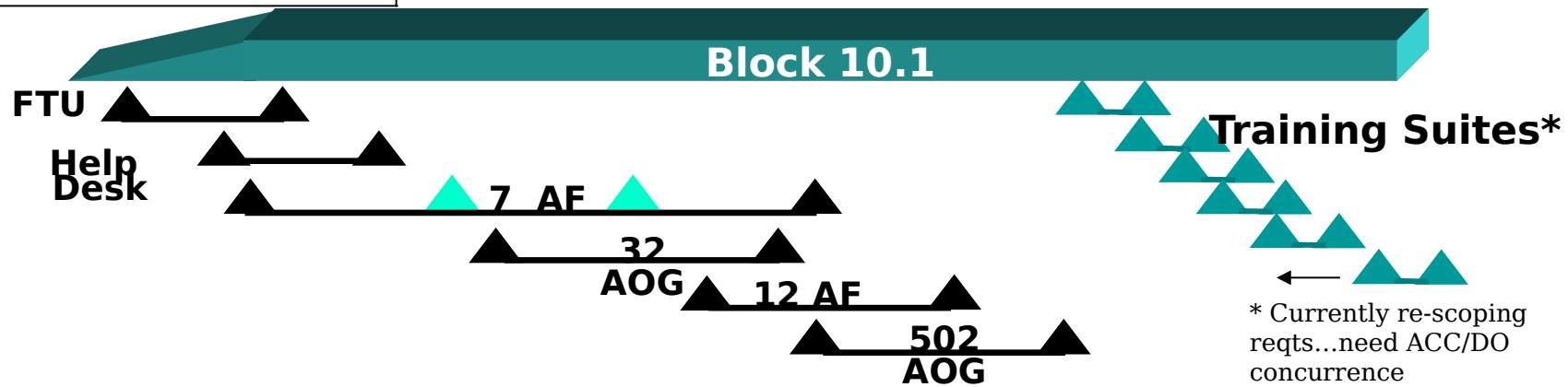
FY04

FY05

FY06

FY07

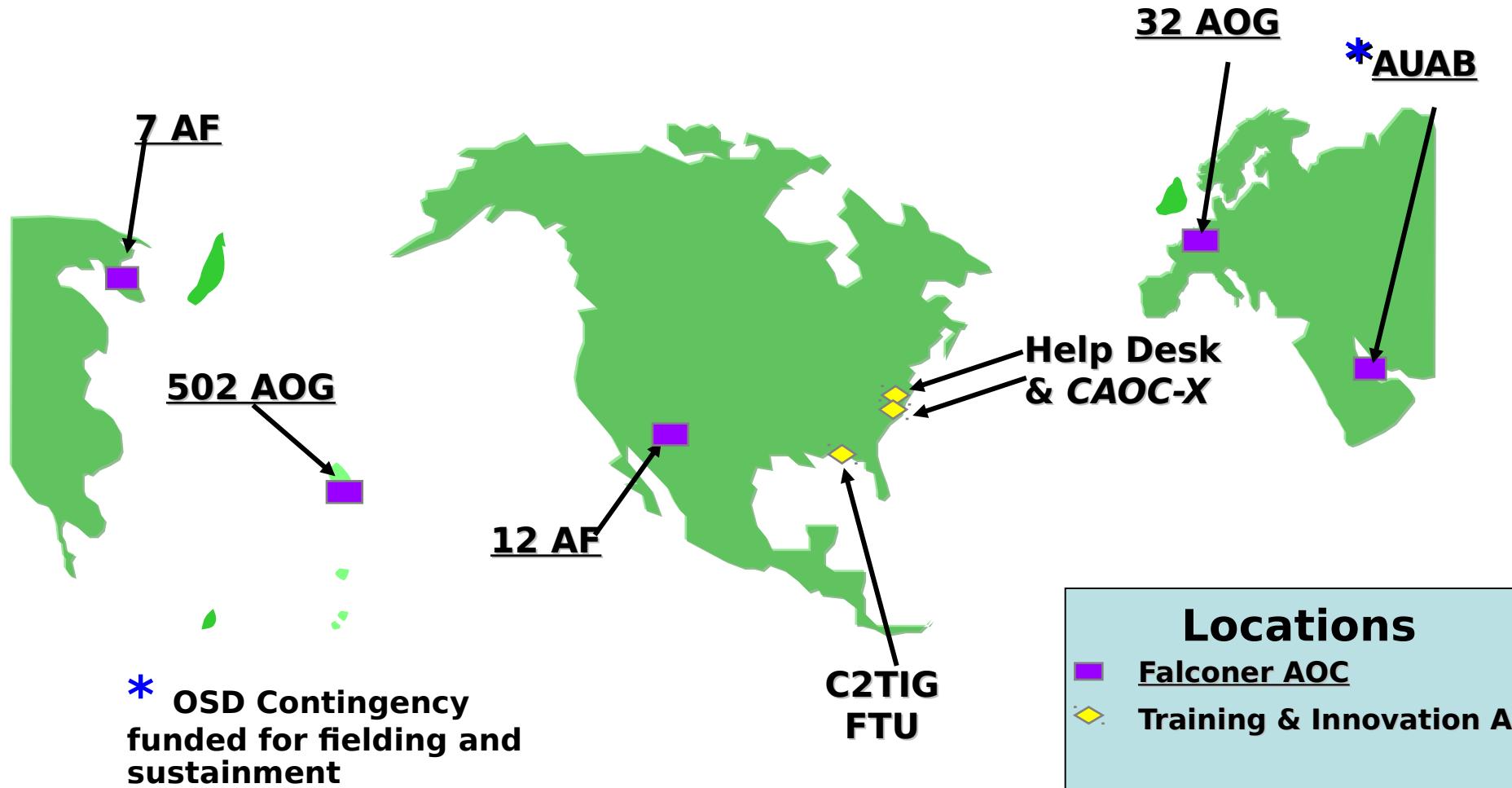
Standardization



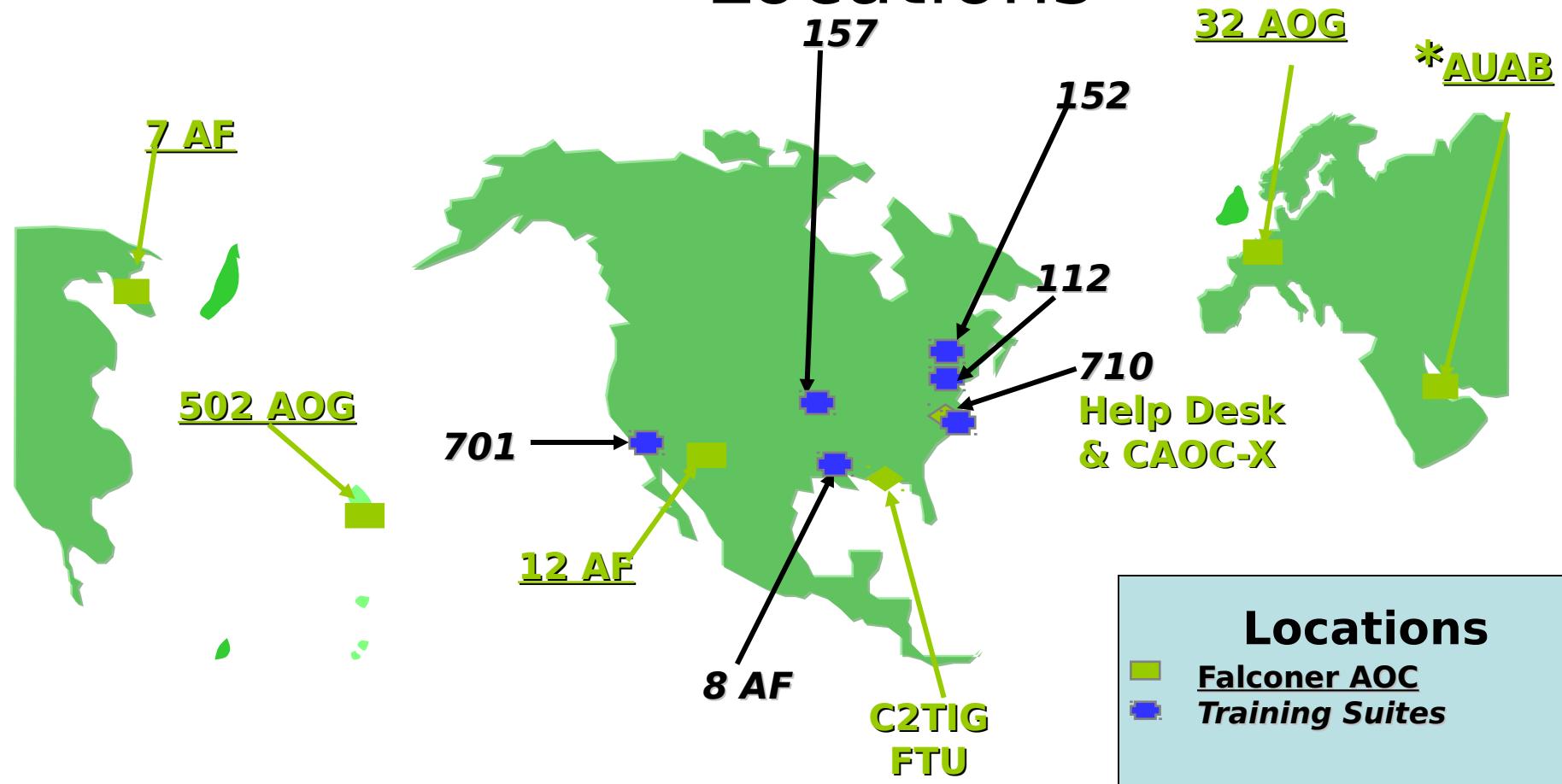
Modernization



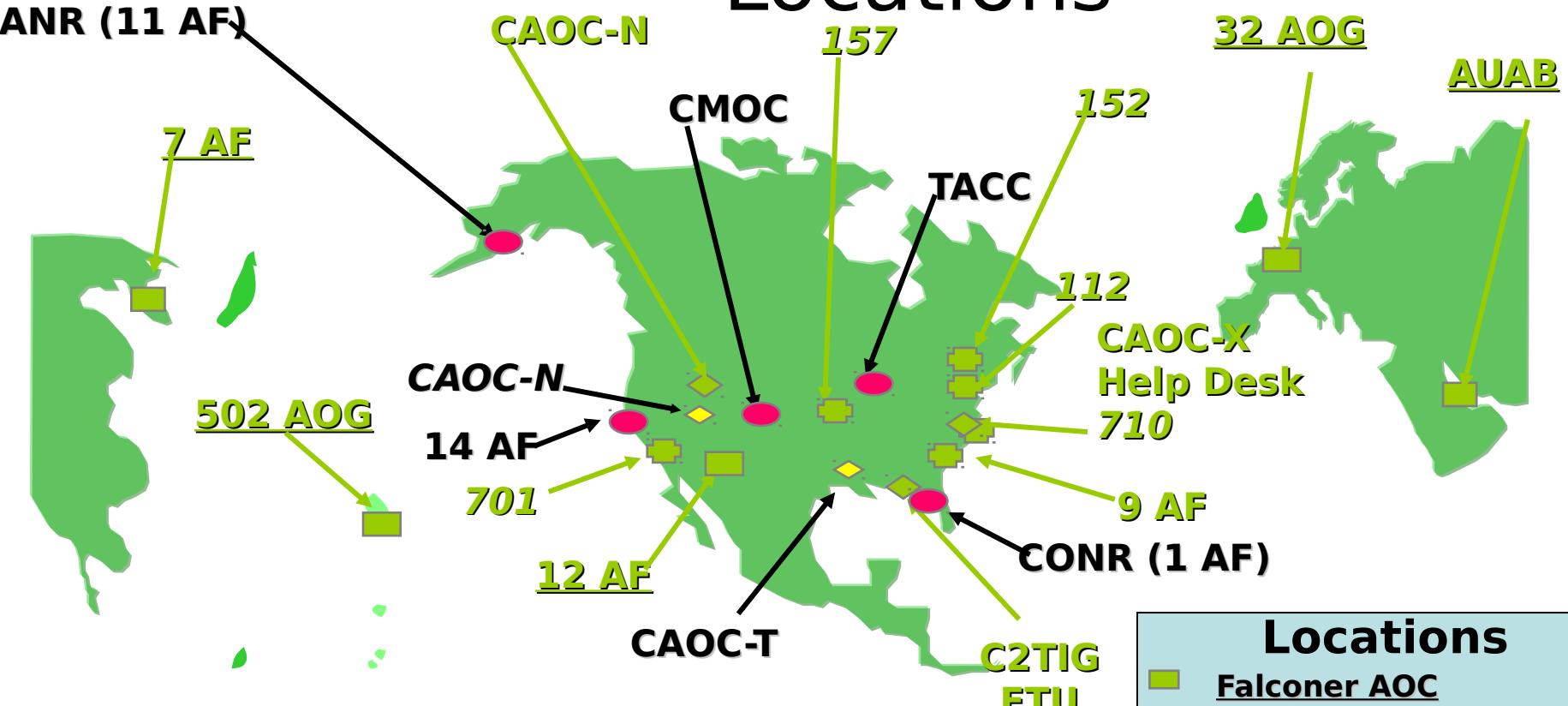
Program Strategy - Standardization Falconer and Other Key Block 10.1 Locations



Program Strategy - Standardization Training Suite Locations



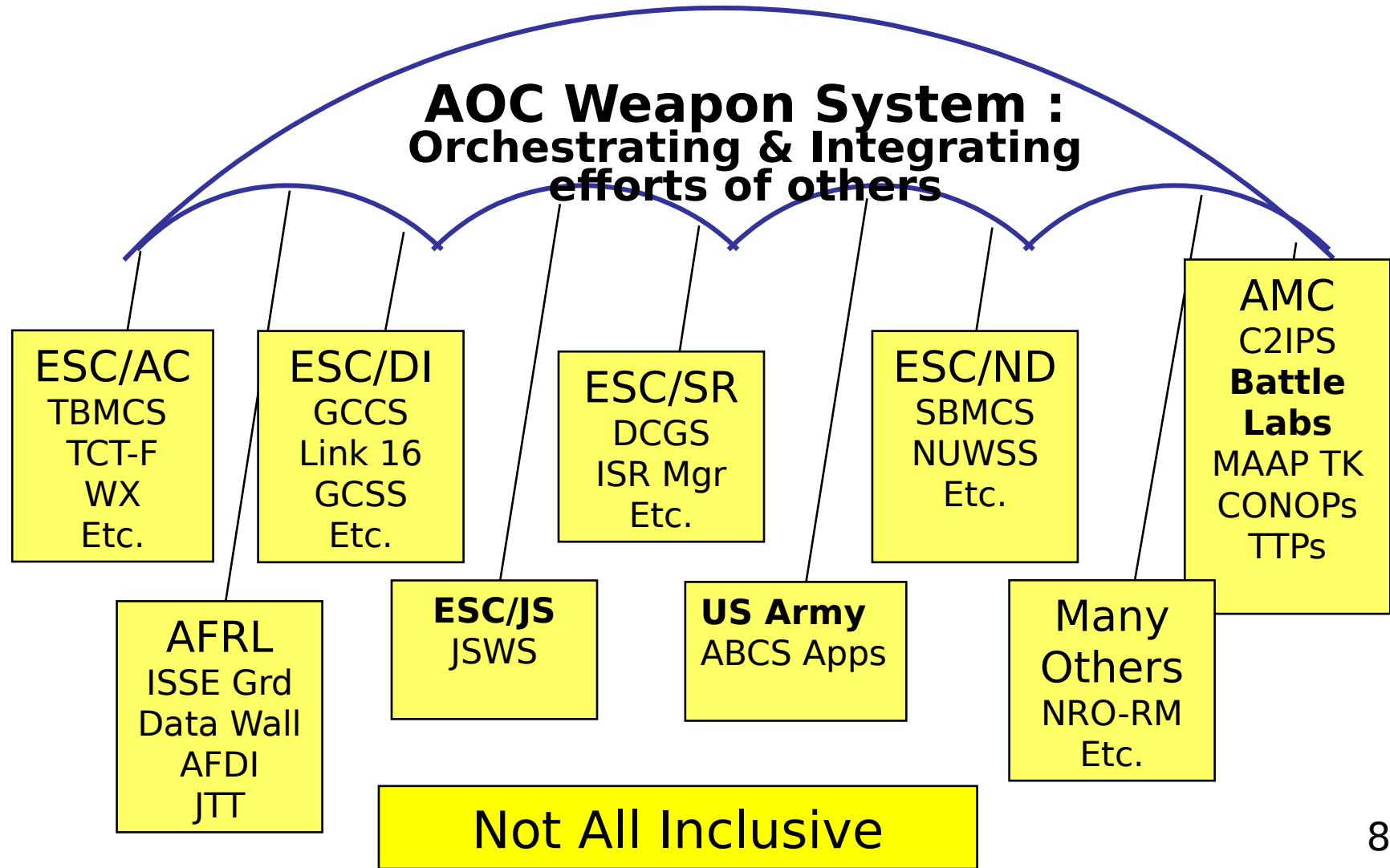
Program Strategy - Standardization Functional AOC Locations



**Functional AOCs (x5) and CAOC-N,
CAOC-T deferred until FY08+ due to
funding**

Locations	
Falconer AOC	
Training Suites	
Training & Innovation AOC	
Functional AOC	

Current Program Strategy



Systems Engineering Approach

- Government developed initial systems engineering products and processes
 - Captured the initial AOC WS Block 10.1 architecture
 - Cited as USAF pathfinder for C2 systems - NCES and C2ERA compliant
 - Maturing architecture to include modeling and simulation support for future acquisitions
 - Block 10.1 Engineering Plan is the “80% solution” for Falconer fieldings
 - Established systems engineering processes
 - Implemented robust configuration management, test management, requirements management processes
 - Defined OSS&E and C4ISP implementation approach
 - Using best commercial practices as guideline, developed tailored systems engineering process
 - Working to “institutionalize” these processes across AOC constituent programs
 - AOC WS TEM in Aug 03 (TBMCS, GCCS, DCGS, TCTF, FIOP key stakeholders)
 - Establishing MOA’s between programs
- Much of this work will be a point of departure for the LSI

Program Strategy - Standardization

Capabilities/Block 10.1 Content

Capabilities

- Improved ATO production & dissemination
- Common air picture
- Initial Formal Training Unit (FTU) infrastructure
- Initial Battlespace Visual.
- Initial TCT Capability
- Initial Plans Automation
- Initial ISR Management
- Limited Coalition Interop
- Transportable - limited deployability
- Improved M2M
- Initial Info Services Capability
- Airspace management
- Collaboration (chat)
- Comm/Info management

Represented by Al Udeid AB Site Configuration, Jan 03

- IW/Space
- Air Mobility

Block 10.1 Objective

ESC - Managed Systems in Red Italics

Mission Applications

1. Collection Management Mission Application (Navy)
2. Command and Control Information Processing System (AMC)
3. Command and Control Personal Computer (USMC)
4. Generic Area Limitation Environment Lite (NRO)
5. ***Global Command and Control System (ESC/DI)***
6. Global Decision Support System (AMC)
7. Global Transportation Network (TRANSCOM)
8. Imagery Product Library (NIMA)
9. ***Information Warfare Planning Capability (ESC/SR)***
10. Interim Targeting Solution (AFRL)
11. Joint Deployable Intelligence Support System (NMIC)
12. ***Operational Model Exploiting GPS Accuracy (ESC/NDC)***
13. ***PC Integrated Intelligence and Imagery (ESC/AC)***
14. Planning and Decision Aid System (NSA)
15. Personnel Recovery Mission Software (JPRA)
16. ***Portable Flight Planning System (ESC/ACU)***
17. RAINDROP (COTS)
18. Requirement Management System (DIA)
19. ***Space Battle Management Core System (ESC/NDC)***
20. ***Theater Battle Management Core System (ESC/ACF)***
21. ***Theater Weather Server (ESC/ACW)***
22. ***Worldwide Origin Threat System (ESC/NDC)***
23. Weapons System Video (AF/SCM)
24. Combat Survivor/Evader Locator (SMC/CZ)
25. ***Intelligence Surveillance Reconnaissance Manager (ESC/SR)***
26. ***Time Critical Targeting - F (ESC/ACF)***
27. All Source Satellite Evaluation Tool (NRO)
28. ***Commanders Tactical Terminal (ESC/SR)***
29. Generic Area Limitation Environment (NRO)
30. ***Global Command and Control System - I3 (ESC/DI)***
31. Powerscene (n/a)

Services

32. Air Operations Net (n/a)
33. Broadsword (AFRL)
34. ***Defense Message System (SSG)***
35. ***Global Broadcast System (ESC/MC)***
36. INTELINK and INTELINK-S (n/a)
37. Joint Collaboration Environment (COTS)
38. NSA Threat Warning Net (n/a)
39. ***Predator Video (ESC/SRG)***
40. Purple Net (n/a)
41. ***Teal Data Information Exchange System-Broadcast (ESC/SR)***

Tactical Intelligence Broadcast System (ESC/SR)*

Tactical Related Applications (ESC/SR)*

43. CSP AUTODIN
44. Internet Relay Chat (COTS)
45. ***Combat Track II (ESC/SRK)***
46. Hummingbird Exceed (COTS)
47. JWARN (USMC SC)
48. Global Hawk Access (ASC/RAV)
49. Geospatial Product Library (Eagle Express) (NIMA)
50. ***Multi-Media Message Manager (M3 AMHS) (ESC/SR)***
51. Outlook Web Access (OWA) (COTS)
52. Sky Media

Infrastructure

53. Data wall (n/a)
54. Domain Core (n/a)
55. ***Perimeter Security System (ESC/ACF)***
56. ***JICO Support System (ESC/ACF)***
57. Radiant Mercury (ARFL)
58. Imagery Support Server Environment Guard (ARFL)
59. Community of Interest Network (n/a)
60. C2 Weapon System Part Task Trainer (AFC2TIG)
61. Joint Worldwide Intelligence Communications System (n/a)
62. Sensitive but Unclassified Internet Protocol Network (n/a)
63. Secure Internet Protocol Router Network (n/a)
64. Tactical Data Links in formats A, B, J (n/a)
65. ***Air Defense System Integrator - TSQ-214 (ESC/DI)***
66. ***Deployable Transit-case System (ESC/SRG)***
67. Joint Tactical Air Ground System (Army)
68. Precision Lightweight Global Position Receiver (n/a)
69. ***Tactical Data Processing Suite (ESC/SR)****
70. ***Tactical Data Terminal (ESC/SR)****
71. ***Tactical Receive Suite (ESC/SR)****
72. Air Force DoDIIS Infrastructure (aka JEDI) (AFRL)
73. AOC Security Portal (n/a)
74. Access Net
75. CENTRIX-S (n/a)
76. Gigabyte Ethernet (n/a)
77. GPS Timing (n/a)
78. Network Appliance Filer System (NAS) (n/a)
79. STAMPS
80. Multi-Level Security (n/a)
81. * All IBS systems

LSI Scope

- Strategic Level
 - Design and maintain architecture
- Operational Level
 - Perform systems engineering & integration functions
- Tactical Level
 - Field and sustain AOCs and Training Suites

Tentative Schedule of Events for LSI Effort

- SAE Review 31 Jul 03
- Industry Involvement 15 Aug – 30 Oct 03
- ASP 30 Oct 03
- Draft RFP 14 Nov 03
- RFP Release 9 Jan 04
- Proposals Due 9 Feb 04
- Milestone Review 22 Mar 04
- Contract Award 8 Apr 04

Possible Risks

- Aggressive, success oriented schedule
- Two “#1” priorities: LSI & fielding
- Transition from Govt-led to LSI-led fielding
- Program funding matched to content ?
 - Initiated Sufficiency Review & ICE
- ACAT designation

Summary

- PSAB and AUAB established baseline for AOC WS
 - Became the “nerve centers” for OEF & OIF
 - AUAB modular concept pathfinder for CSAF’s deployable vision
- Making great progress on FTU, HD, and HTACC now
- We will execute the CSAF’s direction for the AOC WS with a two-pronged approach
 - Need to update program baseline and resolve issues in FY06 POM
- Moving out on LSI effort